Pietro Valente

Lisbon, Portugal

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SUMMARY

Software Engineer with over 2.5 years of professional experience in telecom and networking, skilled in developing and optimizing software solutions.

SKILLS

- **Programming languages:** C++/C, Java, SQL, Python, HTML/CSS, MATLAB, Kotlin.
- **Technologies:** 5G, HTTP/HTTPS, TCP/IP, Multithreading/Concurrency, Jenkins, Docker.
- **Tools:** Git, GitHub/Gerrit, VS Code, JUnit, CppUnit, Jira, MySQL/PostgreSQL, Eclipse.

EXPERIENCE

Nokia   **Lisbon, Portugal**
C++ Software Engineer   Jan 2024 - present
- Implemented C/C++ features for digital signal processing and code optimization to enhance the quality and capacity of RAN product at L1 level.
- Used CppUnit and JSON to create unit and system component tests, improving product reliability and stability.
- Analyzed, through internal tools, bugs and issues identified by internal tests or reported by external clients to find solutions.

Politecnico di Milano, Rai, RaiWay   **Milan, Italy**
ICT/*Software Engineer*   Oct 2022 - Dec 2023
- Developed new features and fixed bugs in C++ by adapting open-source code for 5G broadcast reception, optimizing it for mobile video streaming using multithreading to ensure real-time performance.
- Created Java and MATLAB scripts for data parsing and analysis to provide feedback on project progress.
- Implemented C/C++ and Python programs to simulate real-life data transmission/reception environments.

EDUCATION

Politecnico di Milano   **Milan, Italy**
MSc - ICT engineering, business and innovation   Sep 2021 - Oct 2023
Final grade: 110/110
- Concentrations: Recommender Systems, Software Engineer, Advanced Databases, Platform Thinking, Management.

University of Padua   **Padua, Italy**
BSc - Computer Science engineering   Sep 2018 - Sep 2021
Final grade: 109/110
- Concentrations: Telecommunications, Computer Networks, Embedded Systems, Operating Systems.

Metropolia University   **Remote**
Course - Applied Web Application Security   Feb 2021 - May 2021
Final grade: 97/100
- Concentrations: Cyber attacks, SQL-injections, XSS and CSRF attacks.

PROJECTS

Cache for HLS live streaming - GitHub Link   Jan 2023 - Jun 2023
- Developed a cache in C/C++ for HLS live streaming over broadband with customizable delay, enhancing streaming stability and efficiency through a dynamic data structure, using multithreading to ensure smooth video playback.

Data-dRiven PrEdictive FArMing in Telengana (DREAM) - GitHub Link   Sep 2021 - Mar 2022
- Created a RASD, Design Document (DD) and Java implementation using Apache Tomcat on Eclipse, along with an Integration Test Deliverable (ITD) using JUnit, for a project aimed at enhancing agricultural production in Telangana.

Voice Activity Detection - GitHub Link   Apr 2021 - Aug 2021
- C++ script designed to enhance audio quality by intelligently removing background noise during silent parts, using advanced speech segment detection algorithms.

CERTIFICATIONS

Udemy | Nov 2024	**Udemy** | Sep 2024	**Udemy** | Jun 2024
Learn Multithreading with Modern C++	*The Git & Github Bootcamp*	*Learn Advanced Modern C++*
Udemy | Dec 2022	**Udemy** | Aug 2020	
Java 8 EE Developer	*Python 3.11 Complete Guide*	